Questions

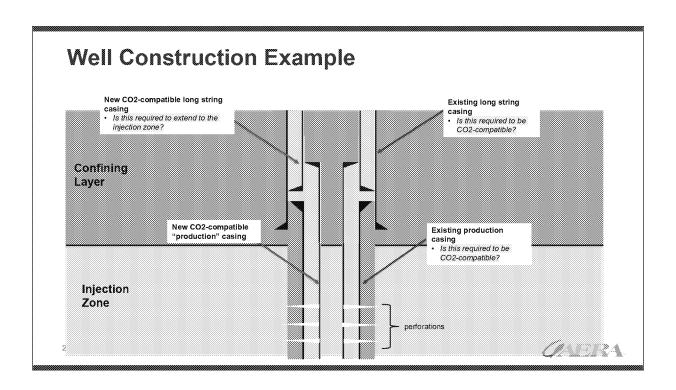
1. Requirements for repermitting existing wells as Class VI injectors

Aera is exploring the option of repurposing existing 64 Zone oil/gas producers as Class VI injection wells.

- Does EPA have any concerns with repermitting oil/gas production wells from the early-to-mid 1900's as Class VI wells, provided they can be designed to meet the general requirements of CFR 146.86 (prevent movement of fluids, permit testing & monitoring)?
- CFR 146.86 also describes casing and cementing requirements. In the case of repermitted wells, to what extent do these requirements apply to the original wellbore?
 - Compatibility: If a CO2-compatible casing string were cemented within an existing wellbore, must the original well's casing also be constructed with CO2-compatible materials?
 - Casing Depth: In many cases, the long string casing in existing wells only extends into the confining layer, just above the injection zone, and prevents a new long string casing from reaching the injection zone. Must the new long string casing extend to the injection zone?

See diagram on next slide





2. Strategy for including back-up candidate Class VI wells

Aera has identified several candidate wells that could be repurposed for Class VI injection. Anticipating that further evaluation will be needed to fully assess the wells' condition and that not all candidates may remain viable, how does EPA recommend accounting for backup Class VI well candidates that could replace any that drop out during testing/construction?



3. Monitoring well density/location guidance?

- Is there guidance available on monitoring well density/location/frequency, distance from injection and or distance from AoR boundaries?
- How does the Maximum Monitoring Area (MMA) discussed in the EPA's GHGRP Subpart RR
 relate to monitoring requirements in the Class VI program specifically within the ½ mile
 buffer surrounding the free phase CO2 plume?



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4. Financial Responsibility Demonstration

Aera is jointly owned by Shell (52%) and ExxonMobil (48%) and we plan to request they provide a corporate guarantee for the Class VI Financial Responsibility Demonstration. While the Financial Responsibility guidance documents describe that a corporate guarantee must come from a JV partner with a majority voting stock (>50%), would a corporate guarantee from each member company for their respective ownership percentage be an acceptable approach?



5. Process/timeline for permitting additional Class VI wells in the future

Aera plans to include all foreseeable Class VI wells for this project in our application, however, given the growing excitement around CCS and the anticipated emergence of new CO2 sources/providers, it is possible that Aera would like to expand injection capacity in the future. What would be the process and anticipated timeline for permitting additional Class VI wells to support a project whose site has already gone through EPA technical review?

 Does EPA have any concerns with drilling additional CO2 injectors within the AoR, after injection has commenced?



6. GHGRP Subpart RR - MRV Plan

Aera is working to become familiar with the Monitoring, Reporting, and Verification (MRV) requirements of subpart RR of the Greenhouse Gas Reporting Program (GHGRP) to ensure that the proposed monitoring plan fulfills both Class VI and Subpart RR requirements.

- · Does EPA have any published guidance on developing an MRV plan?
- Do you recommend pre-application consultation regarding development of an MRV Plan?
 - If so, when would be appropriate?
 - Can you direct us to the appropriate contact?



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